

Appl. No. 09/997,133  
Amdt. dated March 31, 2005  
Reply to Office Action of January 10, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Please cancel claims 1 and 12, amend claims 2, 4-8, 13, and 16-19, and add new claims 23-25 as follows:

1. (cancelled)
2. (currently amended): The method of claim ~~1~~23 further comprising the ~~step~~steps of:  
determining a total space stored for the plurality of data files from the measures of storage space utilized;  
determining if the total space exceeds a predetermined threshold which is a percentage of a summation of the allocatable storage space of each of the multiple disk storage volumes; and  
generating an exception report to inform a user that the total ~~volume space~~space exceeds the predetermined threshold.
3. (original): The method of claim 2 further comprising the step of:  
automatically emailing the exception report to the user.
4. (currently amended): The method of claim 2 further comprising the step of:  
reducing the size of the ~~large physical sequential data file~~database.
5. (currently amended): The method of claim ~~1~~23 wherein the IMS OSAM ~~dataset data files is are~~dataset data files ~~is are~~are guaranteed space and the multiple logical devices are a plurality of disk memory storage devices.

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6. (currently amended): The method of claim 5 wherein said step of determining for each of the multiple disk storage volumes a storage space utilized in the storing of the plurality of data files ~~analyzing the large physical sequential data file~~ further comprises:

performing an IDCAMS LISTCAT against the data ~~file~~ files to determine if the data ~~file~~ files are guaranteed space.

7. (currently amended): The method of claim 5 wherein said step of determining for each of the multiple disk storage volumes a storage space utilized in the storing of the plurality of data files ~~analyzing the large physical sequential data file~~ further comprises:

executing a DCOLLECT utility against a volume table of contents on each of said ~~disks~~ disk storage volumes to extract information about the ~~physical file plurality of files~~ stored on each disk.

8. (currently amended): The method of claim 5 wherein said step of monitoring further comprises:

performing a SUBLISTC routine for the ~~dataset~~ database and returning a gts flag, last volume, total number of volumes, and a predetermined number of occurrences of volume serial numbers for the ~~dataset~~ database.

9. (original): The method of claim 8 wherein said step of monitoring further comprises: reading an output from the SUBLISTC routine and returning gts flag and last volume information.

10. (original): The method of claim 5 further comprising the step of: executing an IEHLISTR routine.

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11. (original): The method of claim 10 further comprising the steps of:

reading an output from the IEHLISTR subroutine; and

returning total free cylinder information.

12. (cancelled)

13. (currently amended): The apparatus of claim ~~12~~25 further comprising:

means for determining a total space stored for the plurality of data files from the measures of storage space utilized;

means for determining if the total space exceeds a predetermined threshold which is a percentage of a summation of the allocatable storage space of each of the multiple disk storage volumes; and

means for generating an exception report to inform a user that the total ~~volume~~space exceeds the predetermined threshold.

14. (original): The apparatus of claim 13 further comprising:

means for automatically emailing the exception report to the user.

15. (original): The apparatus of claim 14 further comprising:

a display to display the exception report.

16. (currently amended): The apparatus of claim 12 wherein the IMS OSAM ~~dataset data~~  
files is are guaranteed space and the ~~multiple logical devices are a plurality of multiple disk~~  
~~memory-storage devices-volumes~~ which are part of a multiple virtual storage mainframe  
computer system.

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17. (currently amended): The apparatus of claim 16 wherein said means for determining for each of the multiple disk storage volumes a storage space utilized in the storing of said plurality of data files ~~analyzing the large physical sequential data file~~ further comprises:

means for performing an IDCAMS LISTCAT against the data ~~file~~ files to determine if the data ~~file~~ is files are guaranteed space.

18. (currently amended): The apparatus of claim 16 wherein said means for ~~analyzing the large physical sequential data file~~ determining for each of the multiple disk storage volumes a storage space utilized in the storing of said plurality of data files further comprises:

means for executing a DCOLLECT utility against a volume table of contents on each of said disks disk storage volumes to extract information about the ~~physical file~~ plurality of files stored on each disk.

19. (currently amended): The apparatus of claim 16 wherein said means for monitoring further comprises:

means for performing a SUBLISTC routine for the ~~dataset~~ database and returning a gts flag, last volume, total number of volumes, and a predetermined number of occurrences of volume serial numbers for the ~~dataset~~ database.

20. (original): The apparatus of claim 19 wherein said means for monitoring further comprises:

means for reading an output from the SUBLISTC routine; and

means for returning gts flag and last volume information.

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21. (original): The apparatus of claim 16 further comprising:

means for executing an IEHLISTR routine.

22. (original): The apparatus of claim 21 further comprising:

means for reading an output from the IEHLISTR subroutine; and

means for returning total free cylinder information.

23. (new): A method for accurately determining information management system (IMS) database space for overflow sequential access method (OSAM) stored data files, the method comprising the steps of:

storing a plurality of data files and transaction data in a database, the database spanning multiple disk storage volumes, each disk storage volume having an allocatable storage space and a measure of storage space utilized;

monitoring the database during the storing of the plurality of data files to determine an order in which the multiple disk storage volumes are filled, the order determination comprising recognition of which of the multiple disk storage volumes is the last storage volume and recognition of one or more storage volumes preceding the last storage volume;

determining for each of the multiple disk storage volumes a storage space utilized in the storing of the plurality of data files; and

adjusting the measure of storage space utilized to full for the one or more storage volumes preceding the last storage volume.

24. (new): The method of claim 23 wherein a data file of the plurality of data files is a sequential data file including transaction data.

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25. (new): A method for accurately determining information management system (IMS) database space for overflow sequential access method (OSAM) stored data files, the method comprising the steps of:

means for storing a plurality of data files and transaction data in a database, the database spanning multiple disk storage volumes, each disk storage volume having an allocatable storage space and a measure of storage space utilized;

means for monitoring the database during the storing of the plurality of data files to determine an order in which the multiple disk storage volumes are filled, the order determination comprising recognition of which of the multiple disk storage volumes is the last storage volume and recognition of one or more storage volumes preceding the last storage volume;

means for determining for each of the multiple disk storage volumes a storage space utilized in the storing of said plurality of data files; and

means for adjusting the measure of storage space utilized to full for the one or more storage volumes preceding the last storage volume.